

IN THE SPECIFICATION

**Please replace the paragraph at page 33, lines 13-19, with the following rewritten paragraph:**

Similarly, the high-likelihood path where the first bit is 1 is a path where path metric of the survival paths in the states 1 and 2 is smaller. Here, the path metric of this path is “likelihood where the first bit is 1”. That is, when the path metrics of the survival paths in the states 1 and 2 are  $PM_i(1)$  and  $PM_i(2)$ , “likelihood where the first bit is 1  $[-1]$ ” becomes  $\text{MIN}(PM_i(1), PM_i(2))$ .

**Please replace the paragraph at page 42, line 21 to page 43, line 2, with the following rewritten paragraph:**

Here,  $[P_i]$   $P_i^0$  represents the power of the received signal, and  $PM_i(0)$  to  $PM_i(3)$  represent path metrics of the survival paths in the states 0 to 3.